

ASSIGNMENT 2

Textbook Assignment: Chapter 3 - Woodworking Tools, Materials, and Methods

- 2-1. Which of the following shop tools is similar to a trailer-mounted field saw?
1. Shop radial-arm saw
 2. Table saw
 3. Band saw
 4. Circular saw.
- 2-2. When using the tilt-arbor bench saw, which of the following parts moves?
1. The table
 2. The throat plate
 3. The arbor
 4. The cutoff gauge
- 2-3. On a tilt-arbor bench saw, the saw blade for ordinary ripping and cutting should extend how far above the table top?
1. 1/32 to 1/16 inch plus thickness of material
 2. 1/16 to 1/8 inch plus thickness of material
 3. 1/8 to 1/4 inch plus thickness of material
 4. 1/4 to 3/8 inch plus thickness of material
- 2-4. Which combination of grooving saws and chisel-type cutters makes up a dado head?
1. One saw and one cutter
 2. One saw and two cutters
 3. Two saws and one or more cutters
 4. Three saws and two cutters
- 2-5. When cutting a piece of material on a table saw, where should you stand?
1. In front of the saw
 2. To the side of the saw
 3. In line with the material
 4. Behind the saw
- 2-6. To remove material from the other side of a table saw when it is in operation, you should reach over the table.
1. True
 2. False
- 2-7. Material should be fed to a table saw blade at what speed?
1. As fast as possible
 2. No faster than you can pull
 3. As slow as you can
 4. As fast as it can cut freely and cleanly
- 2-8. The band saw is primarily designed for which of the following cuts?
1. Freehand
 2. Curved
 3. Straight
 4. Miter
- 2-9. How is the size of a band saw designated?
1. Tooth points per inch
 2. Width and gauge of the blade
 3. Diameter of the wheels
 4. Cutoff gauges and gears
- 2-10. Which of the following terms is NOT used in designating a band saw blade?
1. Circumference
 2. Points
 3. Gauge
 4. Width
- 2-11. A clicking sound develops while you are cutting material with a band saw. The sound is an indication of what blade problem?
1. Binding
 2. Crack
 3. Pinch
 4. Too small

- 2-12. A hand or foot break should be installed on all band saws of what size(s)?
1. 18 inches or smaller
 2. 24 inches
 3. 30 inches
 4. 36 inches or larger
- 2-13. Which of the following accessories allow(s) a drill press to become a more versatile woodworking tool?
1. Shaper heads
 2. Router bit
 3. Jig
 4. All of the above
- 2-14. How is drill press speed changed?
1. By a two-speed control switch
 2. By the location of the V-belt the spindle
 3. By a variable speed control knob
 4. By changing the drive pulley
- 2-15. On a drill press, the spindle and quill assembly is controlled by what component?
1. Head lock handle
 2. Head collar support lock handle
 3. Quill lock handle
 4. Spindle/quill feed handle
- 2-16. When operating a drill press. you should ensure the head lock handle is tight at all times.
1. True
 2. False
- 2-17. At what maximum angle from horizontal can you tilt a drill press table?
1. 10°
 2. 25°
 3. 30°
 4. 45°
- 2-18. On a drill press, which of the following features allows you to regulate drilling depth?
1. Table lock handle
 2. Head lock handle
 3. Adjustable locknut
 4. Head support collar handle
- 2-19. The size of a wood lathe is determined by what factor?
1. The diameter of the stock that the lathe will accommodate
 2. The circumference of the stock that the lathe will accommodate
 3. The length of stock that can be mounted on the lathe
 4. The horsepower of the lathe motor
- 2-20. How many major parts does a wood lathe have?
1. One
 2. Two
 3. Three
 4. Four
- 2-21. Of the major wood lathe parts, which one supports all other major parts?
1. The bed
 2. The headstock
 3. The tailstock
 4. The tool rest
- 2-22. What wood lathe part can be moved along the length of the lathe's bed?
1. The headstock
 2. The tailstock
 3. The motor spindle
 4. The faceplate
- 2-23. Which of the following special tools are chiefly used to rough out nearly all shapes formed by spindle turning?
1. Turning gouges
 2. Skew chisels
 3. Parting tools
 4. Scraping tools

- 2-24. Scraping tools of various shapes are used for most accurate turning work, especially for most faceplate turning.
1. True
 2. False
- 2-25. Which of the following special tools allows you to cut recess or grooves with straight sides and a flat bottom?
1. Skew chisels
 2. Scraping tools
 3. Parting tools
 4. Turning gouges
- 2-26. When operating a woodworking lathe, which of the following practices is safe?
1. Standing to one side when starting the motor
 2. Making adjustments with the motor running
 3. Using calipers on irregular surfaces while the lathe is in motion
 4. Milling stock freehand
- 2-27. When using a jointer, loosening the set screws forces the throat piece against the knife for holding the knife in position.
1. True
 2. False
- 2-28. When a jointer makes a cut deeper at the beginning of the cut than at the end, you should adjust the jointer by
1. raising the infeed table
 2. lowering the infeed table
 3. raising the outfeed table
 4. lowering the outfeed table
- 2-29. The fence on a jointer can be set to produce beveled edges at which of the following angles?
1. 45° only
 2. 60° only
 3. 75° only
 4. Any desired angle
- 2-30. Setting jointer knives at too heavy a cut can cause which of the following problems?
1. The jointer to stop
 2. Gaps in the spindle
 3. Kickback
 4. A sharp edge to form on the outfeed table
- 2-31. When operating a jointer, you should always plane with the grain.
1. True
 2. False
- 2-32. Which of the following statements regarding surfacers is NOT true?
1. A surfacer can only surface
 2. A surfacer can remove warps from lumber
 3. A surfacer can surface only one side
 4. A surfacer cuts with a butterhead located below the drive rollers
- 2-33. How should you true a warped board and plane its top surface if the available tools include a jointer and a single surfacer?
1. Simply feed the board once through the surfacer
 2. Feed the board through the surfacer, then turn over the board and feed it through again
 3. True one face of the board on the jointer, then feed the board through the surfacer with the true face down
 4. True one face of the board on the jointer, then feed the board through the surfacer with the trued face up
- 2-34. When operating a surfacer, what component should you have in place over the cutting head?
1. Plastic guard
 2. The infeed table
 3. The vacuum hood
 4. A metal guard

- 2-35. A piece of material becomes stuck during surfacing. Which of the following procedures should you follow to remove it?
1. Stop the surfacer and lower the feed bed
 2. Stop the surfacer and push out the material
 3. Keep the surfacer running and pull out the material
 4. Keep the surfacer running and use another piece of stock to push out the material
- 2-36. A shaper is primarily designed for which of the following operations?
1. Rabbeting and grooving
 2. Edging curved stock and cutting ornamental edges
 3. Surfacing the face of large pieces of stock
 4. Edging flat, smooth surfaces
- 2-37. When shaping an edge on a shaper, how should you feed the stock to the cutter head?
1. Feed stock in the same direction as the spindle is rotating only
 2. Feed stock against the rotation of the spindle only
 3. Feed stock in the same direction as the spindle is rotating, then reverse and feed against the rotation of the spindle
 4. Feed the stock through in either direction
- 2-38. If tuned or irregular edges are to be shaped, you should remove the straight fence and replace with what component?
1. A starting pin placed in the table top
 2. A C-clamp with a hand screw
 3. A three-wing cutter
 4. A straightedge board
- 2-39. The size of a circular saw is determined by what factor?
1. The size of the motor
 2. The size of the smallest blade
 3. The size of the largest blade
 4. The size of the guard
- 2-40. On a circular saw, which of the following types of blades is considered an all purpose blade used for cutting all thickness of wood with or across the grain?
1. Abrasive
 2. Crosscut
 3. Rip
 4. Combination
- 2-41. Hollow-ground blades have no set and make the smoothest cuts on thick or thin stock.
1. True
 2. False
- 2-42. When cutting materials with a portable electric circular saw, you should use which of the following procedures?
1. Hold the saw with the right hand and guide the work with the left hand
 2. Hold the saw with both hands firmly against the work
 3. Hold the saw with both hands after removing the blade guard
 4. Hold the saw with both hands lightly against the work
- 2-43. If you do not maintain a firm grip on a saber saw during cutting, the saw will tend to
1. burn the wood
 2. overheat
 3. excessively vibrate
 4. stop cutting

- 2-44. To start a cut with a saber saw, what technique should you use?
1. Press the blade into the material and start the motor
 2. Pull back on the blade and start the motor
 3. Start the motor and push the material into the blade
 4. Start the motor and push the blade into the material
- 2-45. When using a reciprocating saw to start a cut, you should place the blade near the material, start the motor, and then move the blade into the material.
1. True
 2. False
- 2-46. The cutting depth of a router is maintained by adjusting what component?
1. The depth setscrew
 2. The depth ring
 3. The chuck nut
 4. The edge guide
- 2-47. Which of the following router features allows you to guide the router in a straight line and is particularly useful for cutting grooves on long pieces of lumber?
1. The depth setscrew
 2. The depth ring
 3. The chuck nut
 4. The edge guide
- 2-48. When operating a router, you should use one hand to steady the router and one hand to secure the material.
1. True
 2. False
- 2-49. Safe operation of any portable power plane requires a single pass cut be less than what maximum depth?
1. 1/8 in
 2. 1/16 in
 3. 3/32 in
 4. 1/4 in
- 2-50. To get a bevel cut using a portable power plane, what action should you take?
1. Loosen the base, set base at desired level, then retighten
 2. Tilt the planer to the desired angle
 3. Tilt the material to the desired angle
 4. Adjust the blade to the desired angle
- 2-51. Which of the following characteristics distinguishes a standard drill from a specialty drill?
1. Spade design
 2. Pistol-grip design
 3. Right-angle
 4. Variable speed
- 2-52. Which of the following sander types is ideal for the removing old finishes from wood flooring, siding, and concrete?
1. Belt
 2. Disk
 3. Orbital
 4. Oscillating
- 2-53. The size designation of a belt sander is determined by the size of the wheels.
1. True
 2. False
- 2-54. When using a disk sander to remove old paint, what method should you use?
1. Lay the disk flat on the surface and apply light pressure
 2. Lay the disk flat on the surface and apply heavy pressure
 3. Lay the disk on its edge and apply enough to bend it at a 45° angle
 4. Tip the machine slightly and apply just enough pressure to bend the disk slightly

- 2-55. All air-powered nailers use the same air pressure
1. True
 2. False
- 2-56. When using power nailers or staplers, which of the following operations is NOT safe?
1. Using standard air pressure
 2. Keeping the nose of the nailer or stapler pointed away from your body or other people
 3. Leaving the tool connected to the air when loading or not in use
 4. Using standard nails or staples
- 2-57. Timber is wood cut to which of the following dimensions?
1. 1-by-12 inches by 8 ft
 2. 2-by-12 inches by 8 ft
 3. 3-by-5 inches by 12 ft
 4. 5-by-7 inches by 16 ft
- 2-58. Which of the following factors is NOT an advantage of seasoned lumber?
1. Decreased shrinkage
 2. Increased strength
 3. Reduced weight
 4. Increased warpage
- 2-59. Lumber is considered dry enough for most uses when its moisture content is in what range?
1. 12% to 15%
 2. 17% to 19%
 3. 20% to 23%
 4. 25% to 28%
- 2-60. As a Builder, you should be able to judge the moisture content of lumber by which of the following characteristics?
1. Taste, color, and weight
 2. Color, weight, smell, and feel
 3. Color, grain, and smell only
 4. Taste, grain, color, and smell